AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) An organic-inorganic composite graded material which is an organic-inorganic composite material comprising a composite in which an organic polymer compound and a metallic compound are chemically bonded to each other, and having a component-graded structure in which the content of the metallic compound in the material continuously changes in the depth direction from the surface of the material, wherein, in the surface of the material, the content of the metallic compound is greater than the content of the organic polymer compound and wherein the metallic compound is a metal-oxide-containing compound or a metal-nitride-containing compound in which the metallic compound is bonded to the organic polymer compound through a metal-oxide-containing compound.
- 2. (Previously Presented) The organic-inorganic composite graded material of claim 1, wherein the organic-inorganic composite material consists of a composite in which the organic polymer compound and the metallic compound are chemically bonded to each other.
- 3. (Previously Presented) The organic-inorganic composite graded material of claim 1, wherein the metallic compound is a metal-oxide-containing compound.
- 4. (Currently Presented) The organic-inorganic composite graded material of claim 1, wherein the metallic compound is a metal-nitride-containing compound in

which the metallic compound is bonded to the organic polymer compound through a metal oxide containing compound.

- 5. (Previously Presented) The organic-inorganic composite graded material of claim 1, which has a thickness of 5 μm or less.
- 6. (Previously Presented) The organic-inorganic composite graded material of claim 1, wherein the composite in which the organic polymer compound and the metallic compound are chemically bonded to each other is a hydrolysis product from a mixture of the organic polymer compound having a molecule containing a metal-containing group capable of bonding to a metal oxide by hydrolysis with a metal compound capable of forming a metal oxide by hydrolysis.
- 7. (Previously Presented) The organic-inorganic composite graded material of claim 1, wherein the composite in which the organic polymer compound and the metallic compound are chemically bonded to each other is a hydrolysis product from a mixture of the organic polymer compound having a molecule containing a metal-containing group capable of bonding to a metal nitride polymer by hydrolysis with a metal nitride polymer.
- 8. (Previously Presented) The organic-inorganic composite graded material of claim 6, wherein the organic polymer compound having a molecule containing a metal-containing group capable of bonding to a metal oxide or a metal nitride polymer by hydrolysis is a copolymer or polycondensate from a monomer having the metal-containing group and a monomer containing no metal.

- 9. (Original) The organic-inorganic composite graded material of claim 8, wherein the organic polymer compound having a molecule containing a metal-containing group capable of bonding to a metal oxide or a metal nitride polymer by hydrolysis is a copolymer from a monomer having an ethylenically unsaturated group and a monomer containing an ethylenically unsaturated group and the metal-containing group.
- 10. (Original) The organic-inorganic composite graded material of claim 6, wherein the metal compound capable of forming a metal oxide by hydrolysis is a metal alkoxide.
- 11. (Previously Presented) The organic-inorganic composite graded material of claim 1, which is a film-shaped product formed on an organic substrate, the film-shaped product substantially having a surface formed of a component from the organic polymer compound, the surface being in contact with the organic substrate, and an open surface formed of a component from the metallic compound.
- 12. (Previously Presented) A process for the production of the organic-inorganic composite graded material recited in claim 1, which comprises preparing a coating solution which is a mixture of (A) an organic polymer compound having a molecule containing a metal-containing group capable of bonding to a metal oxide or metal nitride polymer by hydrolysis with (B) (a) a metal compound capable of forming a metal oxide by hydrolysis or (b) a metal nitride polymer, or preparing a hydrolysis product of the mixture, forming a coating film made of the above coating solution on a substrate made of an organic material and drying the coating film under heat.

- 13. (Original) The process of claim 12, wherein the coating film is dried to have a thickness of 5 μm or less.
- 14. (Previously Presented) The process of claim 12, wherein the organic polymer compound, as Component (A), having a molecule containing a metal-containing group capable of bonding to a metal oxide or a metal nitride polymer by hydrolysis is a copolymer or polycondensate from a monomer having the metal-containing group and a monomer containing no metal.
- 15. (Previously Presented) The process of claim 12, wherein the organic polymer compound, as Component (A), having a molecule containing a metal-containing group capable of bonding to a metal oxide or a metal nitride polymer by hydrolysis is a copolymer from a monomer having an ethylenically unsaturated group and a monomer containing an ethylenically unsaturated group and the metal-containing group.
- 16. (Previously Presented) The process of claim 12, wherein the metal compound, as Component (B) (a), capable of forming a metal oxide by hydrolysis is a metal alkoxide.
 - 17.-27. Canceled.
- 28. (Currently Amended) A substrate using coated with the organic-inorganic composite graded material recited inof claim 1.
 - 29. (Original) The substrate of claim 28, which is an organic substrate.
- 30. (Currently Amended) The substrate of claim 29, wherein the organic substrate has a coating of the organic-inorganic composite graded material interposed as an

intermediate film and has athe coating layer containing contains at least an inorganic or metallic material.

- 31. (Currently Amended) The substrate of claim 28, <u>in</u> which <u>the substrate</u> is a metallic substrate having the organic-inorganic composite graded material interposed as an intermediate film and <u>having</u> a photocatalytic material layer, and has a surface on which an organic coating film is to be formed.
- 32. (Currently Amended) An organic-inorganic adhesive material comprisingusing the organic-inorganic composite graded material of claim 1 as an adhesive.
- 33. (Currently Amended) An article having comprising the organic-inorganic composite graded material of claim 1 interposed as an intermediate film and having a coating layer containing at least an inorganic or metallic material.
- 34. (Original) The article of claim 33, wherein the coating layer containing at least an inorganic or metallic material is a photocatalytic material layer.
- 35. (Currently Amended) The article of claim 33, wherein the coating layer containing at least an inorganic or metallic material is an inorganic or metallic electrically conductive material layer.
- 36. (Currently Amended) The article of claim 33, wherein the coating layer containing at least an inorganic or metallic material is a scratch-resistant coating layer containing an inorganic or metallic material.

37. (Currently Amended) The article of claim 33, wherein the coating layer containing at least an inorganic or metallic material is an inorganic or metallic optical recording material layer or an inorganic or metallic dielectric material layer.